SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: STANGARD® CTP GR

Other means of identification
Chemical name: N-(Cyclohexylthio)phthalimide

Recommended use and restrictions on use: Pre-Vulcanization Inhibitor

Supplier information:
Manufactured for and supplied by:

Supplier:	Harwick Standard Distribution Corporation
Supplier Address:	60 S. Seiberling Street, Akron, OH 44305
Contact:	Health, Safety & Environment
Telephone:	330-798-9300
Website:	www.harwickstandard.com

SECTION 2 – HAZARD(S) IDENTIFICATION

Classification of the substance or mixture:
Skin Sensitization, Category 1

OSHA Regulatory Status: Classified as hazardous based on components.

GHS Label Elements
Hazard Symbol:

Signal word: Warning

Hazard statements:
May cause an allergic skin reaction.
Very toxic to aquatic life.

Precautionary Statements:
Avoid breathing dust.
Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Dispose of contents/container to an approved waste disposal plant.

Hazard(s) not otherwise classified (HNOC): Not classified.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Substance / mixture: Substance

Chemical Identity	CAS Number	Weight %
N-(Cyclohexylthio)phthalimide	17796-82-6	>97%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4 – FIRST AID MEASURES

Inhalation: Remove to fresh air. Consult a physician in case of complaints.

Ingestion: Rinse out mouth. Drink plenty of water. Do not induce vomiting. Seek medical attention immediately.

Skin contact: Immediately wash with soap and water and rinse thoroughly. Remove all contaminated clothing. If irritation persists, consult a physician.

Eye contact: Remove contact lenses if worn. Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids apart. If irritation persists, seek medical attention.

Most important symptoms / effects, acute and delayed:
Allergic reactions.
Coughing.
Gastric or intestinal disorders.
Dizziness.

Indication of immediate medical attention and special treatment needed: Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing method: In case of fire, use water fog, carbon dioxide (CO2), foam or dry chemical.

Unsuitable extinguishing method: None.

Specific hazards arising from chemical: Combustible dust when in a finely divided and highly suspended state. Formation of toxic gases is possible during heating or in case of fire: Nitrogen oxides (Nox), sulfur oxides, carbon monoxide and carbon dioxide.

Firefighting equipment/instructions: Fight fire from a safe distance and from a protected location. Use water spray to cool fire exposed surfaces. Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective equipment. Do not allow runoff to enter waterways, surface or ground water.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Avoid contact with the substance. Keep unprotected persons away. Avoid generation of dust. Do not breathe dust. Ensure adequate ventilation. Use respiratory protection device against the effects of fumes/dust. Wear protective equipment. Remove ignition sources and work with non-sparking tools.

Environmental precautions:
Do not allow to enter sewers/surface or ground water.

Methods and materials for containment and cleaning up:
Mechanically collect and place in appropriate container for disposal. Do NOT spread spilled material with water.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin, eyes and clothing. Avoid generation of dust. Avoid breathing of dust. In case of dust, provide adequate ventilation and local exhaust as needed.

Conditions for safe storage, including any incompatibilities: Store closed containers in a cool, dry, well-ventilated area. Store away from strong acids, oxidizing materials. Avoid exposure to direct sunlight.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: None established.

Appropriate engineering controls: Ventilation: Local exhaust and mechanical recommended to minimize exposure.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Tightly sealed safety glasses.

Skin protection:

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product**.**

Other protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use suitable respiratory protection in case of insufficient ventilation. Use suitable respiratory protections when high concentrations are present.

General hygiene considerations: Wash thoroughly after handling and before eating, drinking, smoking or using toilet facilities. Immediately remove all soiled or contaminated clothing. Avoid contact with eyes and skin.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance:		Solid. White pellets.
Odor:		Characteristic
pH:		Not available
Boiling Point/Range:		400°C (calculated)
Melting Point/Range:		91°C - 95°C
Flash Point (°C):		172°C (342°F)
Evaporation rate:		Not available
Flammability (solid, gaseous):		Product is not flammable.
Explosive limits	**Lower limit:**	Not available
	Upper limit:	Not available
Vapor Pressure:		Negligible @ 25°C
Vapor Density:		Not available
Relative Density/ Specific Gravity:		1.33 @ 25°C
Solubility:		Not available
Partition Coefficient: (n-octanol/water)		Not available
Auto-ignition Temperature:		Not available
Decomposition Temperature:		Not available
Viscosity:		Not applicable

SECTION 10 - STABILITY & REACTIVITY

Reactivity: No data available.

Chemical stability: Material is stable under recommended storage and handling conditions.

Possibility of hazardous reactions: Contact with acids releases toxic gases. Toxic fumes may be released if heated above the decomposition point. Reacts with strong alkali. Reacts with strong oxidizing agents.

Conditions to avoid: Avoid contact with heat, open flames, sparks, hot surfaces, acids and strong oxidizing agents.

Incompatible materials: Store away from oxidizing agents.

Hazardous decomposition products: In case of fire, nitrogen oxides, sulfur oxides, carbon monoxide and carbon dioxide may be liberated.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity:

Cyclohexylthiophthalimide CAS No. 17796-82-6
Oral: LD50 (Rat): 2,600 mg/kg
Dermal: LD50 (Rabbit): 5, 010 mg/kg

Skin Irritation/Corrosion:
Slight irritant effect on skin and mucous membranes.

Eye Damage/Irritation:
Irritant effect.

Respiratory or Skin Sensitization:
Sensitization possible through skin contact.
Sensitizing effect through inhalation is possible by prolonged exposure.
Sensitization possible by inhalation and/or dermal contact.

Reproductive Toxicity:
No birth defects were noted in animal studies.

Germ cell Mutagenicity:
Not available

Carcinogenicity:

Standard tests for genetic changes produced both positive and negative results in animals, animal cells and bacteria cells.

STOT-single exposure:
Not available

STOT-repeated exposure:
Not available

Aspiration hazard:
Not available

Symptoms related to the physical, chemical and toxicological characteristics:

Eyes: May cause irritation.
Skin: May cause irritation. May cause an allergic skin reaction.

Delayed and immediate effects as well as chronic effects from short and long-term exposure:
Repeated dose toxicity: Repeated exposures may result in skin and/or respiratory sensitivity.

SECTION 12 - ECOLOGICAL INFORMATION

Aquatic toxicity:

Very toxic to aquatic life.
Short term, Fish toxicity:
- LC50 (Oncorhynchus mykiss): 0,41 mg/L/96 h
- LC50 (Pimephales promelas (fathead minnow)): 0,39 mg/L/14 d

Short term, Invertebrate toxicity:
- EC50 (Daphnia magna (Big water flea)): 1,21 mg/L/48h (EU Method C.2)
- NOEC (Daphnia magna (Big water flea)): <0,82 mg/L/48h (EU Method C.2)

Long Term, Invertebrate toxicity:
- EC50 (Daphnia magna (Big water flea)): >2,0 mg/L/21d (OECD 211)

Short term, Algae toxicity:
- ErC50 Desmodesmus subspicatus (green algae): (EU Method C.3) >0,093 mg/L/72h

Persistence and degradability:

Abiotic degradation:
- Hydrolysis: 99,7 %/7 d (25 °C, pH7) (Monsanto ABC-32456)
- Photolysis in light: not to be expected
- Photolysis in air: half-life time 2,8 h, calculated (SRCAOPWinv1.91) (US EPA, 2004)
- Photolysis in Water: No data available
- Photolysis in soil: No data available

Biodegradation: Product is not readily biodegradable.
- Water: 35 %/28 d (comparable to C.4E – Closed Bottle Test, Directive 92/69/EEC)
- Sediment: No data available
- Soil: No data available

Bioaccumulative potential:

Bioconcentration factor (BCF): 130 (calculated, US EPA, 2004)
Bioconcentration factor (BCF): 140,3 L/kg (calculated, BCFBAF v3.00)

Partition coefficient n-octanol /water:
at 25 °C: 3,19 log P(o/w)
An appreciable bioaccumulation potential is to be expected (log P(o/w) >3).

Mobility in soil:

adsorption coefficient KOC: 483 L/kg

Additional information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal instructions: Dispose according to Federal, State and Local chemical and waste disposal regulations. Do not allow to enter into drainage system. Handle contaminated packages in the same way as the substance itself.

SECTION 14 - TRANSPORTATION INFORMATION

U.S. DOT Classification: Not DOT regulated.

Regulated by air.

SECTION 15 - REGULATORY INFORMATION

U.S.:

TSCA Inventory Status: Listed
SARA Section 313: Not listed.
CA Prop 65: Not listed.

SECTION 16 - OTHER INFORMATION

Issue date: 7-27-2017
Version #: 01
Revision Information: GHS Format

HMIS: Health: 1 Flammability: 1 Physical Hazard: 0

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